

ABSTRACT

The invention provides a system for quantitative measurement of percent glycated hemoglobin as hemoglobin A1c in whole blood having extended shelf life at room temperature. The system comprising a blood dilution solution and a device adapted for receiving at least a portion of diluted blood solution, for contacting the blood solution with a dry reagent system, for detecting a change in the reagent system and for providing an indication of the analytical result to the user, and the extended shelf life and the elimination of a requirement for refrigeration for storage is achieved by having the blood dilution solution which comprises a first surfactant for hemolysis and a second surfactant for stability. The system of this invention is useful in other analysis kits and systems as well.